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ATTORNEY DOCKET NO. APPLICATION NO. FILING DATE FIRST NAMED INVENTOR CONFIRMATION NO. 09/385,651 08/27/1999 MICHAEL GREMINGER 31949 9479 EXAMINER 116 7590 08/08/2006 PEARNE & GORDON LLP FAULK, DEVONA E 1801 EAST 9TH STREET ART UNIT PAPER NUMBER **SUITE 1200** CLEVELAND, OH 44114-3108 2615

DATE MAILED: 08/08/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/385,651	GREMINGER, MICHAEL
Office Action Summary	Examiner	Art Unit
	Devona E. Faulk	2615
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).		
Status		
<ol> <li>Responsive to communication(s) filed on 19 May 2006.</li> <li>This action is FINAL.</li> <li>This action is FINAL.</li> <li>Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.</li> </ol>		
Disposition of Claims		
4) ⊠ Claim(s) 1 and 12-23 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) □ Claim(s) is/are allowed.  6) ☒ Claim(s) 1 and 12-23 is/are rejected.  7) □ Claim(s) is/are objected to.  8) □ Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) □ The specification is objected to by the Examiner.  10) ☒ The drawing(s) filed on 7/28/2004 is/are: a) ☒ accepted or b) □ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).		
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119		
12) ⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ⊠ All b) □ Some * c) □ None of:  1. ☑ Certified copies of the priority documents have been received.  2. □ Certified copies of the priority documents have been received in Application No  3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.		
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date	4) 🔀 Interview Summary Paper No(s)/Mail D 5) 🔲 Notice of Informal F 6) 🔲 Other:	

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#### **DETAILED ACTION**

## Response to Arguments

1. Applicant's arguments, filed 5/19/2006, with respect to the rejection(s) of claim(s) 1,12,13,15,16,17,20-23 under 102 (b) and 103 (a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Delisle.

- 2. The prior art fails to explicitly disclose automatically selecting the test data based on the user's response.
- 3. The applicant's representative and the examiner had an interview on 4/18/2006.
- 4. Regarding claim 18, the discussion during the interview the 112 issue cited in the previous office action was discussed. However, the examiner found another 112 issue with claim 18.
- 5. Claims 2-11 are cancelled and claim 24 is withdrawn.

### Claim Rejections - 35 USC § 112

6. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim18 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession

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of the claimed invention. Claim 18 recites closes wherein said selection unit has a test signal/reaction signal pattern storage unit, an output of which is operationally connected to a first input of a comparing unit, said connection for data entry being operationally connected with a second input of said comparing unit, said comparing unit having an output operationally connected to said selection unit. The original disclosure fails to disclose the above that the selection unit has a test signal/reaction signal pattern storage unit and therefore the specification lacks support for the claim.

# Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 1,12-15,17,19,20-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Moser et al. (WO 85/00509) in view of Engebreston et al. (US 4,548,082) in further view of Delisle et al. (US 3,809,811).

Regarding **claim 1**, Moser discloses a hearing device fitting device (Figure 1, Figure 16) comprising:

a data entry device (human interfaces 68 and 70 Figure 1; 370 Figure 16);

a computing device (308, Figure 16), (connected on an input side with a connection for connecting to said data entry device (human interfaces 68 and 70

Figure 1; 370 Figure 16) and

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further comprising an audio storage medium play-back unit storing a plurality of audio tracks (Moser teaches that the CD stores digital test signals; page 14, lines 23-25; track is defined as a distinct selection of music from a recording or a compact disc) and having a control input connected to another output of said computing device output (Figure 16) and having an audio output connectable to a loudspeaker unit input (310, Figure 16) (pages 28, line 27-page 30).

wherein said computing device generates selects another one of said audio tracks based on said assessment data (Moser teaches that the test signals stored as on the CD 304 may be reproduced upon selection by the common unit (370); page 30 ,lines 18-11;page 19, lin3 21-page 20, line 5).

a control signal at said output depending on data input to said connection for data entry (page 29, lines 23-30).

Moser in Figure 16 discloses communication between the control unit and the hearing aid and of assessment data entered into said data entry device (page 30 ,lines 18-11;page 19, lin3 21-page 20, line 5).

Moser fails to disclose a computing device having an output side with a connection for a hearing device and assessment data entered into said data entry device based on perceptions of a user wearing said hearing device listening to said audio tracks.

Engebreston discloses a computing device having an output side with a connection for a hearing device (Figure 1; output side connected to hearing aid

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worn by patient) and of assessment data entered into said data entry device based on perceptions of a user wearing said hearing device listening to said audio tracks (column 7, lines 10-20; Engebreston teaches that a repertoire of sound are stored on the disc including tones and that the patient can communicate his response to the data using the IRU).

It would have been obvious to modify Moser so that the output of the control unit is connected to a hearing device and to have assessment data entered into said data entry device based on perceptions of a user wearing a hearing device listening to audio tracks as taught by Engebreston in order to automatically control the characteristics of the hearing aid (Engebreston, column 6, lines 46-48).

Moser as modified by Engebreston fails to teach of automatic selection of test signals based on user response.

Delisle discloses a system for automatically an audiometric test wherein, based on the user's response, the apparatus will continue the test utilizing a different amplitude level for the same tone frequency or continue the test using a different tone frequency (abstract).

It would have been obvious to modify Moser as modified by Engebreston to have automatic selection of the test signals or test tones based on the user response in order to provide hearing testing that is completely managed by a computer program without the intervention of an operator.

Regarding **claim 12**, Moser as modified by Engebreston and Delisle discloses wherein said playback unit contains at least one audio storage chip Moser teaches of the playback unit as a compact disc player (52). He further teaches that the information stored on the compact disc (54) is listed in a stored table of contents (page 18, lines 30-33). There is therefore implicitly some sort of audio storage chip as claimed.

Regarding **claim 13**, Moser as modified by Engebreston and Delisle wherein said playback unit is a CD playback unit. Moser teaches of the playback unit as a compact disc player (302). He further teaches that the information stored on the compact disc (304) is listed in a stored table of contents (page 28, lines 28-35).

Regarding claim 15, Moser as modified by Engebreston and Delisle discloses further comprising a decoding unit, wherein said playback unit is an audio CD playback unit generating a specification of an extent of at least one of the segments on the audio storage medium in said playback unit, and wherein said specification is fed from an output of said playback unit to said decoding unit which then generates a control signal for the operation of said playback unit (Figure 16, page 28, line30-page 29, line 30).

Regarding **claim 16**, Moser as modified by Engebreston and Delisle discloses the hearing device fitting device according to claim 1, wherein said fitting device further comprises a set-value comparing unit having an output

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operationally connected to a level control input of said playback unit for controlling said audio –output (page 25, lines 2-7), wherein

the hearing device is connected to said hearing device output, the hearing device having a level detector (350, Figure 16) which is connected to an acoustical/electrical converter of the hearing device, such that said computing unit generates, on a level detector control output, a level detector control signal for controlling an operational connection between a level detector output of said level detector and a computing unit control input of said computing unit, said computing unit control input also operationally connected to said set-value comparing unit, and wherein

said computing unit enables said playback unit for playback of a predetermined storage segment of the audio storage medium upon receipt of a control signal on said computing unit control input (Figure 16, page 29, lines 17-30), and further wherein

said computing unit controls establishing said operational connection of said level detector output to said computing unit control input (Figure 16, page 29, lines 17-30)

Regarding claim 17, Moser as modified by Engebreston and Delisle discloses said computing unit further including a selection unit (Moser, X-Y tablet 68; page 15, lines 23-30; Figure 1), wherein said connection for data entry is connected to a human input device and is operationally connected with said selection unit, a selection output of said selection unit being operationally

connected to said selection input of said playback unit (page 29, lines 23-30; Figure 1 and Figure 16).

Regarding **claim 19**, Moser as modified by Engebreston and Delisle discloses wherein said connection for data entry is connected to a human input device and to a decoding unit (disc player 52, Figures 13-15 and 302 in Figure 16; page 18, lines 18-27) which generates, from input data from said human input device, according to stored decoding tables, output data to an output of said decoding unit that is operationally connected with another input of said computing unit ((disc player 52, Figures 13-15 and 302 in Figure 16; page 18, lines 18-27; Figure 16, page 29, lines 23-30).

#### Claims 20 and 22 share common elements.

Regarding claims 20 and 22, Moser discloses a hearing device fitting arrangement (Figure 1 and Figure 16) comprising:

an audio storage playback unit (302,304, Figure 16) including:

a control input having a selection input for selecting any of a plurality of storage segments on an audio storage medium (page 29, lines 23-30); and an audio output( speaker 310);

a loudspeaker operationally connectable to said audio output of said playback unit (310, Figure 16); and

a computing unit (308) including:

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a data input for data entry (370) by an individual carrying a hearing device to be fitted insitu:

a hearing device output for operationally connecting to the hearing device (312);

and an audio control output for operationally connecting to said control input of said audio storage medium playback unit(Figure 16);

wherein said computing unit is adapted for automatically selecting another one of the plurality of storage segments (page 28, lines 28-page 29).

The only difference between claim 20 and 22 is that claim 22 recites " a hearing device output for operationally connecting to the hearing device for programming said hearing device" where claim 20 recites "a hearing device output for operationally connecting to the hearing device".

Moser in Figure 16 discloses communication between the control unit and the hearing aid. Moser in Figure 16 discloses communication between the control unit and the hearing aid and of assessment data entered into said data entry device (page 30 ,lines 18-11;page 19, line 21-page 20, line 5). Moser discloses that the CD has test signals on it.

Moser fails to disclose a computing device having an output side with a connection for a hearing device (Figure 1; output side connected to hearing aid worn by patient) and that said data input for said individual to input assessment data for assessing said hearing aid during playback of one of said storage segments and selecting depending on said assessment data entered by user

Engebreston discloses a computing device having an output side with a connection for a hearing device (Figure 1; output side connected to hearing aid worn by patient) and of a data unit for said individual to input assessment data for assessing said hearing aid during playback of one of said storage segments (column 7, lines 10-20; Engebreston teaches that a repertoire of sound are stored on the disc including tones and that the patient can communicate his response to the data using the IRU).

It would have been obvious to modify Moser so that the output of the control unit is connected to a hearing device and to have assessment data entered into said data entry device to input assessment data for assessing hearing aid during playback as taught by Engebreston in order to control the characteristics of the hearing aid (Engebreston, column 6, lines 46-48).

Moser as modified by Engebreston fails to explicitly teach of automatic selection of test signals based on user response.

Delisle discloses a system for automatically an audiometric test wherein, based on the user's response, the apparatus will continue the test utilizing a different amplitude level for the same tone frequency or continue the test using a different tone frequency (abstract).

It would have been obvious to modify Moser as modified by Engebreston to have automatic selection of the test signals or test tones based on the user response in order to provide hearing testing that is completely managed by a computer program without the intervention of an operator.

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Regarding claim 21, Moser as modified by Engebreston and Delisle discloses wherein said connection for data entry is connected to a human input device and to a decoding unit (disc player 52, Figures 13-15 and 302 in Figure 16; page 18, lines 18-27) which generates, from input data from said human input device, according to stored decoding tables, output data to an output of said decoding unit that is operationally connected with another input of said computing unit ((disc player 52, Figures 13-15 and 302 in Figure 16; page 18, lines 18-27; Figure 16, page 29, lines 23-30).

9. Claims 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Moser et al. (WO 85/00509) as applied above to claim 1 and Engebreston et al. (US 4,548,082) as applied above to claim 1 and Delisle et al. (US 3,809,811) as applied above to claim 1, in further view of Geiger (US 4,807,208).

Regarding claim 14, Moser as modified by Engebreston and Delisle fails to disclose but Geiger teaches of further comprising a comparer unit that tests the audio storage medium in said playback unit for a predetermined identification and which disables said playback unit on non-recognition of said predetermined identification (column 3, lines 18-27 and lines 30-34). It would have been obvious to modify Moser as modified by Engebreston and Delisle by having a test that determines if the audio storage medium matches some predetermined identification as taught by Geiger so that only desired marked pieces will be played (Geiger; column 3, lines 25-34)

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10. Claim 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over Basseas (U.S. Patent 6.674.867) as modified by Delisle et al. (US 3,809,811).

Regarding **claim 23**, Basseas discloses a method for fitting a hearing device insitu (insitu is defined as in its natural position) (Figure 1) comprising the steps of:

applying a hearing device to an individual(Figure 1);
subjecting the individual to an audio test signal (column 4, lines 11-17);
having the individual appraise said audio test signal (column 4, lines 18-24);

and selecting, in dependency of said appraising, a subsequent audio test signal (column 2, lines 36-48) (column 4, lines 5-column 5).

Basseas fails to explicitly teach of automatic selection of test signals based on user response.

Delisle discloses a system for automatically an audiometric test wherein, based on the user's response, the apparatus will continue the test utilizing a different amplitude level for the same tone frequency or continue the test using a different tone frequency (abstract).

It would have been obvious to modify Basseas to have automatic selection of the test signals or test tones based on the user response in order to provide hearing testing that is completely managed by a computer program without the need for intervention by an operator.

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#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Devona E. Faulk whose telephone number is 571-272-7515. The examiner can normally be reached on 8 am - 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on 571-272-7848.

The Art Unit location of your application in the USPTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Art Unit 2615. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DEF

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